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	Application No.	Applicant(s)
. Notice of Allowability		
	09/443,447 Examiner	CHANG ET AL. Art Unit
	Lamino	7.1.7 51.1.0
	Michael La Villa	1775
The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-86 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT I of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this a 5) or other appropriate communication RIGHTS. This application is subject 13 and MPEP 1308.	pplication. If not included on will be mailed in due course. THIS
1. This communication is responsive to <u>amendment filed on</u>	24 November 2003.	
2. A The allowed claim(s) is/are <u>18-23 and 25-30</u> .		
 The drawings filed on are accepted by the Examin Acknowledgment is made of a claim for foreign priority 		
a) All b) Some* c) None of the:	under 35 0.5.0. § 119(a)-(d) 01 (i).	
1. Certified copies of the priority documents have	ve been received.	
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority d		
International Bureau (PCT Rule 17.2(a)).		J
* Certified copies not received:		
Acknowledgment is made of a claim for domestic priority reference was included in the first sentence of the specification.		
(a) The translation of the foreign language provisional	application has been received.	
Acknowledgment is made of a claim for domestic priority in the first sentence of the specification or in an Application.		since a specific reference was included
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of	of this communication to file a reply of this application. THIS THREE-MO	complying with the requirements noted DNTH PERIOD IS NOT EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subinFORMAL PATENT APPLICATION (PTO-152) which gi		
8. CORRECTED DRAWINGS (as "replacement sheets") mi (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No		O-948) attached
(b) ☐ including changes required by the proposed drawing	correction filed which has b	neen approved by the Evaminer
(c) ☐ including changes required by the proposed drawing		
(o) In more unity origing to required by the attablied Examine	to / anonamone / continue of in the	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
9. DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENT FOR		

Attachment(s)

☐ Notice of References Cited (PTO-892)
:☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08

4 Examiner's Comment Regarding Requirement for Deposit of Biological Material

5 Notice of Informal Patent Application (PTO-152)	
6 Interview Summary (PTO-413), Paper No. 20040106	

7⊠ Examiner's Amendment/Comment

.8 Examiner's Statement of Reasons for Allowance

9
☐ Other

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EXAMINER'S AMENDMENT

- An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- Authorization for this examiner's amendment was given in a telephone interview with Mr. Ackerman on 6 January 2004.
- 3. The application has been amended as follows:
 - I. Regarding Claim 22, please add a period at the end of the claim.
 - II. Please amend Claim 25 to read:
 Claim 25. (Currently amended) The spin valve giant
 magnetoresistance sensor of Claim 18 wherein said free ferromagnetic
 layer is comprised of: CoFe, CoFe/NiFe, or Co/NiFe and has a
 thickness of 20 to 30 Å.
 - III. Please delete Claim 36.
 - IV. In the Abstract, at five lines from the end through the end, please delete the phrase, "In the second embodiment, a high conductivity layer (HCL) is formed over the buffer layer to create a spin filter SVGMR. The HCL layer enhances the GMR ratio of the spin filter SVGMR. The third embodiment is a pinned FM layer comprised of a three layer structure of an lower AP layer, a spacer layer (e.g., Ru) and an upper AP layer."

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CONCLUSION

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number (571) 272-1539. The examiner can normally be reached on Monday through Friday.

 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535.

Cavilla

Michael La Villa January 6, 2004